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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,827	10/24/2005	Thomas Schwarz	BB-149	5864
23557 7590 01/08/2008 SALIWANCHIK LLOYD & SALIWANCHIK A PROFESSIONAL ASSOCIATION			EXAMINER	
			HISSONG, BRUCE D	
PO BOX 1429: GAINESVILL	50 E, FL 32614-2950		ART UNIT	PAPER NUMBER
	,		1646	,
			MAIL DATE	DELIVERY MODE
			01/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
•	10/539,827	SCHWARZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Bruce D. Hissong, Ph.D.	1646			
The MAILING DATE of this communication ap	1	orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 145	September 2006.				
,	This action is FINAL. 2b) This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-18 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-18</u> are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) ac	cepted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date. Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

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DETAILED ACTION

Election/Restrictions

A. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- 1. A disorder selected from the group consisting of: sunburn, inflammation, skin aging, skin cancer, and a disorder associated with apoptosis.
- 2. A pharmaceutically acceptable carrier selected from the group consisting of: liposomes, ointments, oils, crèmes, emulsions, and dispersions.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

- B. The claims are deemed to correspond to the species listed above in the following manner:
 - 1. The species of disorders corresponds to claims 3-4.
 - 2. The species of pharmaceutically acceptable carriers corresponds to claim 12.

The following claim(s) are generic: claims 1-2 and 11.

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C. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1

because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for

the following reasons: The claims are drawn to a method of preventing or treating a disorder of the skin

associated with damage induced by UV-radiation, wherein said method comprises administration of an

effective amount of interleukin (IL)-18, and specifically, wherein the disorder is selected from the group

consisting of sunburn, inflammation, skin aging, and skin cancer.

Nagai et al (J. Invest. Dermatol., 2002, 119:541-548 – cited in the IDS received on 11/18/2005)

discloses gene transfer-mediated administration of IL-18 to mice with melanoma. Specifically, Nagai et

al show that melanoma cells transfected with a vector encoding IL-18 produced IL-18 in vivo when

transferred to sygeneic mice and inhibited tumor growth (see abstract, p. 543-544). Given the broadest

reasonable interpretation, the disclosure of Nagai et al can be interpreted as a method of administering IL-

18 to a subject suffering from a disorder associated with UV-radiation, specifically melanoma (skin

cancer). Thus, the species of UV disorders lacks a single general inventive concept that makes a

contribution over the prior art, as set forth under PCT Rule 13.1.

D. Applicant is also advised that the reply to this requirement, to be complete, must include an

election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

E. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named

inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of

inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37

CFR 1.17(i).

F. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Bruce D. Hissong, Ph.D., whose telephone number is (571) 272-3324. The examiner can

normally be reached M-F from 8:30 am - 5:00 pm. If attempts to reach the examiner by telephone are

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unsuccessful, the examiner's supervisor, Gary Nickol, Ph.D., can be reached at (571) 272-0835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bruce D. Hissong Art Unit 1646

> /Robert Landsman/ Primary Examiner Art Unit 1647